

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re	Application of:	§	Group Art Unit:	1712
	Lirio Quintero	§	-	
		§		
Serial No.: 10/023,273		§		
		§	Examiner:	
Filed:	December 14, 2001	§		
		§		
For:	Surfactant-Polymer Composition	§	•	
	for Substantially Solid-Free Water	§	Atty. Docket: 154-	26969-US
	Based Drilling, Drill-in and	§	•	
	Completion Fluids	8		

-MARKED-UP-CLAIMS-FILED-WITH SECOND PRELIMINARY AMENDMENT

1	196. (Amended) A water-based drilling fluid comprising:	RECEIVED			
1	196. (Amended) A water-based drilling fluid comprising:	MAY 2 7 2003			
2	an aqueous base <u>fluid</u> ;	GROUP 1700			
3	a quantity of water soluble polymer; and,				
4	an amount of surfactant in association with said water soluble polymer;				
5	wherein said quantity, said amount, and said association provide	de said water			
6	soluble polymer with effective rheology and fluid loss	control properties			
7	comprising low shear rate viscosity.				
1	230. (Amended) A water-based drilling fluid comprising:				
2	an aqueous base <u>fluid;</u>				
3	a quantity of water soluble polymer;				
4	an amount of surfactant in association with said water soluble	polymer;			

5	wherein said quantity, said amount, and said association provide said water- based			
6		drilling fluid effective rheology and fluid loss control properties		
7		comprising low shear rate viscosity; and		
8	a concentration of non-toxic water emulsifiable material as an internal phase, said			
9		surfactant being effective to emulsify said water emulsifiable material and		
10		to produce emulsion droplets having an average diameter of about 30		
11		microns or less.		
1	272.	(Amended) A water-based drilling fluid comprising:		
2	an aqueous base <u>fluid</u> ;			
3	at least about 2 lb./bbl. water soluble polymer; and,			
4	at least about 0.2 lb./bbl. of a surfactant in association with said water soluble			
5		polymer;		
6	wherein said water soluble polymer, said surfactant, and said association provide			
7		said water- based drilling fluid with effective rheology and fluid loss		
8		control properties comprising low shear rate viscosity.		
1	329.	(Amended) A water-based drilling fluid comprising:		
2	an aqueous base <u>fluid</u> ;			
3	about 7.5 lb./bbl. water soluble polymer; and,			
4	about 2 lb./bbl. of a surfactant in association with said water soluble polymer;			
5	wherein said water soluble polymer, said surfactant, and said association provide			
6		said water- based drilling fluid with effective rheology and fluid loss		
7		control properties comprising low shear viscosity.		

Respectfully submitted,

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